



PTO/SB/21 (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/875,076
	Filing Date	June 6, 2001
	First Named Inventor	Chen W. Liaw
	Art Unit	1646
	Examiner Name	P. M. Mertz
Total Number of Pages in This Submission	Attorney Docket Number	AREN 11.US9.DIV(AREN-239)

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <b>Statement Under 37 CFR 3.73(b) w/ copy of recorded Assignment and Table A</b>		
<table border="1"><tr><td>Remarks</td><td><b>VIA EXPRESS MAIL LABEL NO.: EV 147590458 US</b> <b>DATE SENT: FEBRUARY 24, 2004</b>  <b>EV147590458US</b></td></tr></table>			Remarks	<b>VIA EXPRESS MAIL LABEL NO.: EV 147590458 US</b> <b>DATE SENT: FEBRUARY 24, 2004</b>  <b>EV147590458US</b>
Remarks	<b>VIA EXPRESS MAIL LABEL NO.: EV 147590458 US</b> <b>DATE SENT: FEBRUARY 24, 2004</b>  <b>EV147590458US</b>			

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Michael A. Patane/Reg. No. 42,982
Signature	
Date	February 24, 2004

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name		
Signature		Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND  
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications identified in Table A attached hereto, and appoint

☒ Practitioners at Customer Number: 35133

PLACE CUSTOMER NUMBER BAR  
CODE LABEL HERE

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for all applications identified in Table

A to:

☒ Practitioners at Customer Number: 35133

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,

ARENA PHARMACEUTICALS, INC.

Date: 12 Feb 2004

By: David L. Bradfute

Name: David L. Bradfute, Ph.D., J.D.  
Title: Director, Intellectual Property

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, **Arena Pharmaceuticals, Inc.**, a corporation, states that it is:

☒ the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is **100%** in the patent applications identified in Table A by virtue of:

☒ a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,

ARENA PHARMACEUTICALS, INC.

Date: 12 Feb 2004

By: 

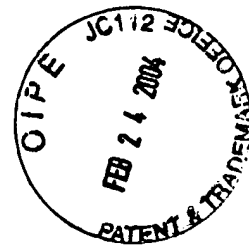
Name: David L. Bradfute, Ph.D., J.D.

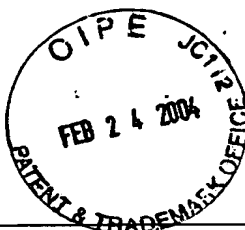
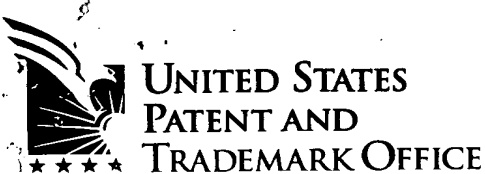
Title: Director, Intellectual Property

TABLE A

SERIAL NO.	FILING DATE	INVENTORS	EXAMINER	ART UNIT	TITLE	ASSIGNMENT RECORDATION
09/170,496	October 13, 1998	Liaw, Chalmers, Behan	N.S. Basi	1646	Non-Endogenous, Constitutively Activated Human Protein-Coupled Receptors	October 13, 1998 Reel/Frame: 009519/00800
09/364,425	July 30, 1999	Lin, Lowitz, Chen	N.S. Basi	1646	Endogenous, Constitutively Activated G Protein-Coupled Receptors	October 7, 1999 Reel/Frame: 10287/0322
09/513,838	February 25, 2000	Beeley, Behan, Chalmers, Menzaghi, Strah-Pleyne	F. D. Higel	1626	Small Molecule Modulators of G Protein-Coupled Receptor Six	June 19, 2000 Reel/Frame: 010923/0892
09/417,044	October 12, 1999	Chen, Dang, Liaw, Lin	M.P. Mertz	1646	Orphan G Protein-Coupled Receptors	December 9, 1999 Reel/Frame: 010435/0092
09/714,008	November 16, 2000	Chen, Dang, Lowitz	J.D. Ulm	1646	Endogenous and Non-Endogenous, Constitutively Activated Human G Protein-Coupled Receptors	November 16, 2000
09/826,509	April 5, 2001	Lehmann-Bruinsma, Liaw, Lin	R. Li	1646	Non-Endogenous, Constitutively Activated Known G Protein-Coupled Receptors	April 5, 2002 Reel/Frame: 011698/0749
09/875,076	June 6, 2001	Liaw, Lin	M.P. Mertz	1646	Human G Protein-Coupled Receptors	September 27, 2001 Reel/Frame: 012204/0089
09/876,252	June 7, 2001	Behan, Lehmann-Bruinsma, Chalmers, Chen, Dang, Gore, Liaw, Lin, Lowitz, White	N.S. Basi	1646	Non-Endogenous, Constitutively Activated Human G Protein-Coupled Receptors	January 23, 2002 Reel/Frame: 013395/0212
10/251,385	September 20, 2002	Liaw, Behan, Chalmers	Not Yet Determined	1646	Non-Endogenous, Constitutively Activated Human G Protein-Coupled Receptors	October 15, 2002 Reel/Frame: 013395/0212
09/060,188	April 14, 1998	Behan, Chalmers	N.S. Basi	1646	Method of Identifying Modulators of Cell Surface Receptors Useful in the Treatment of Disease	June 29, 1998 Reel/Frame: 09278/0566
09/416,760	October 12, 1999	Chen	N. S. Basi	1646	Non-Endogenous, Constitutively Activated G Protein-Coupled Orphan Receptors	September 29, 1998 Reel/Frame: 012204/0084
09/995,225	November 26, 2001	Chen, Chu, Dang, Lowitz, Pride	Not Yet Determined	1646	Endogenous and Non-Endogenous Versions of Human G Protein-Coupled Receptors	June 12, 2002 Reel/Frame: 012986/015

SERIAL NO.	FILING DATE	INVENTORS	EXAMINER	ART UNIT	TITLE	ASSIGNMENT RECORDATION
10/139,483	May 6, 2002	Beeley, Behan, Chalmers, Menzaghi, Streh-Playmett	L.L. Stockton	1626	Small Molecule Modulators of Protein-Coupled Receptors	May 6, 2002 Reel/Frame: 012888/0615
10/083,168	February 26, 2002	Liaw, Chalmers, Behan, Maciejewski-Lenior, Leonard, Lin, Ortuno	Not Yet Determined	1646	Endogenous and Non-Endogenous Versions of Human G Protein-Coupled Receptors	May 2, 2002 Reel/Frame: 012869/0310
10/104,602	March 22, 2002	Behan, Chalmers, Menzaghi	Not Yet Determined	1614	Anti-Psychosis Combination	June 24, 2002 Reel/Frame: 013022/0323
60/372,131	April 12, 2002	Colucci	N/A	N/A	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0255
10/164,163	June 5, 2002	Colucci	Not Yet Determined	1646	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0272
60/295,948	June 5, 2001	Colucci	N/A	N/A	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0255
60/308,267	July 26, 2001	Colucci	N/A	N/A	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0255
60/330,363	October 18, 2001	Colucci	N/A	N/A	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0255
60/339,281	December 11, 2001	Colucci	N/A	N/A	Non-Endogenous, Constitutively Activated Versions of Plant G Protein-Coupled Receptor: GCR1	November 11, 2003 Reel/Frame: 014120/0255
10/321,807	December 16, 2002	Chen, Dang, Lowitz	Not Yet Determined	1646	Endogenous and Non-Endogenous, Constitutively Activated Human G Protein-Coupled Receptors	March 18, 2003 Reel/Frame: 013856/0251
09/301,811	April 28, 1999	Hurst, Sutton	M. P. Allen	1631	System and Method for Database Similarity Join	April 28, 1999 Reel/Frame: 09929/0009
60/372,058	April 12, 2002	Smith, Smith	N/A	N/A	5HT2C Receptor Modulators	June 24, 2002 Reel/Frame: 013022/0330





DTF: JTA  
2/12

DECEMBER 04, 2001

Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
www.uspto.gov

PTAS  
WOODCOCK WASHBURN KURTZ, ET AL.  
GWILYM JOHN OWEN ATTWELL  
ONE LIBERTY PLACE - 46TH FLOOR  
PHILADELPHIA, PA 19103-7301

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WOODCOCK Washburn Kurtz  
Mackiewicz & Norris LLP

\*101862824A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/27/2001

REEL/FRAME: 012204/0089  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
CHEN, RUOPING

DOC DATE: 10/08/1999

ASSIGNOR:  
DANG, HUONG R.

DOC DATE: 10/08/1999

ASSIGNOR:  
LIAW, CHEN W.

DOC DATE: 10/08/1999

ASSIGNOR:  
LIN, I-LIN

DOC DATE: 10/08/1999

ASSIGNEE:  
ARENA PHARMACEUTICALS, INC.  
6166 NANCY RIDGE DRIVE  
SAN DIEGO, CALIFORNIA 92121

SERIAL NUMBER: 09875076  
PATENT NUMBER:

FILING DATE:  
ISSUE DATE:

012204/0089 PAGE 2

PEARLENE FOSTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

AREN-0239

10-03-2001

HEET



101862824

attached original documents or copy thereof.

To, The Honorable Commissioner of P.

## 1. Name of conveying party(ies):

Ruoping Chen **9-28-99** October 8, 1999  
First Assignor Date of Execution

Huong T. Dang October 8, 1999  
Second Assignor Date of Execution

Chen W. Liaw October 8, 1999  
Third Assignor Date of Execution

I-Lin Lin October 8, 1999  
Fourth Assignor Date of Execution

Fifth Assignor Date of Execution

Sixth Assignor Date of Execution

Additional name(s) of conveying party(ies) attached? ( ) YES (X) NO

## 2. Name and address of receiving party(ies):

Name: Arena Pharmaceuticals, Inc.

Street Address: 6166 Nancy Ridge Drive

City: San Diego

State California ZIP 92121

Additional name(s) &amp; address attached? ( ) YES (X) NO

## 3. Nature of Conveyance (check only one):

( ) New Assignment

( ) Merger

( ) License Agreement

( ) Security Agreement

( ) Change of Name

( ) Other:

(X) Cross-reference of Assignment filed in United States  
Application No.09/417,044, recorded on  
December 09, 1999 at Reel No.010435 and Frame No.  
0092

## 4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.:

Patent Nos.:

Date application was signed by the first  
named executing inventor

09/875,076

(Fill-in this date only if assignment is  
filed together with a new application)5. Name and address of party to whom correspondence  
concerning documents should be mailed:

Gwilym John Owen Attwell  
WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP  
One Liberty Place - 46th Floor  
Philadelphia, Pennsylvania 19103-7301  
215-568-3100

6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 3.41):.....\$40.00

(X) Enclosed

( ) Authorized to be charged to Deposit Account  
Number 23-30508. Please charge any deficiency or credit any  
overpayment to Deposit Account Number 23-3050

10/02/2001 DBYRNE 00000208 09875076

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of  
the original document.

Gwilym John Owen Attwell/45,449

Name of Person Signing/Reg. No.

Signature

September 26, 2001

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 4

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

**PATENT**  
**Joint Inventors**

DOCKET NO.: AREN-0050

(Pending Application;  
Serial No. Unknown)

**ASSIGNMENT**

WHEREAS, we Ruoping Chen, Huong T. Dang, Chen W. Liaw and I-Lin Lin, hereinafter referred to as the assignors, residing respectively at 5296 Timber Branch Way, San Diego, CA 92105, 5352 Oak Park Drive, San Diego, CA 92105, 7668 Salix Place, San Diego, CA 92129 and 8291-7 Gold Coast Drive, San Diego, CA 92126 are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. AREN-0050 entitled Human G Protein-Coupled Orphan Receptors; and

WHEREAS, Arena Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 6166 Nancy Ridge Drive, San Diego, CA 92121, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and

**PATENT**  
**Joint Inventors**

all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

We further authorize and direct our attorneys to insert below\* the serial number and filing date of said application now identified as Case No. ALW-000 as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Ruoping Chen (L.S.)  
Ruoping Chen

Huong T. Dang (L.S.)  
Huong T. Dang

Chen W. Liaw (L.S.)  
Chen W. Liaw

I-Lin Lin (L.S.)  
I-Lin Lin

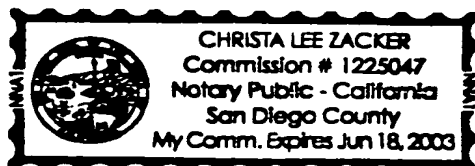
**PATENT  
Joint Inventors**

STATE OF California:

: SS

COUNTY OF San Diego:

On this 8 day of October, 19 99, before me personally came the above named **Ruoping Chen, Huong T. Dang, Chen W. Liaw and I-Lin Lin** to me personally known and known to me to be the same individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will for the use and purposes therein set forth.



Christa Lee Zacker  
Notary Public

\*The above assignment covers application Serial No. 09/417,044, filed on October 12, 19 99.

The above insertion made by me this 7<sup>th</sup> day of December, 1999.

[Signature]  
of **WOODCOCK WASHBURN KURTZ MACKIEWICZ  
& NORRIS LLP**